



Tourmaline Caterpillar

By Kim Lembke, September 2015

Gemray Merit (+-30% tilt) in Tourmaline = 57.29

Angles for R.I. = 1.620

89 + 28 girdles = 117 facets

2-fold, mirror-image symmetry

96 index

L/W = 1.803 T/W = 0.527 U/W = 0.156

P/W = 0.452 C/W = 0.083

Vol./W³ = 0.465

PAVILION

P1	39.41°	96-48	Cut to CP
G1	90.00°	96-48	Establish width
P2	39.42°	01-47-49-95	No meet - cut to proportions indicated by the design
G2	90.00°	01-47-49-95	Meet P1/P2/G1
P3	39.39°	02-46-50-94	No meet - cut to proportions indicated by the design
G3	90.00°	02-46-50-94	Meet P2/P3/G2
P4	39.34°	03-45-51-93	No meet - cut to proportions indicated by the design
G4	90.00°	03-45-51-93	Meet P3/P4/G3
P5	39.23°	04-44-52-92	No meet - cut to proportions indicated by the design
G5	90.00°	04-44-52-92	Meet P4/P5/G4
P6	39.12°	05-43-53-91	No meet - cut to proportions indicated by the design
G6	90.00°	05-43-53-91	Meet P5/P6/G5
P7	60.46°	24-72	No meet - cut to proportions indicated by the design
P8	61.31°	20-28-68-76	No meet - cut to proportions indicated by the design
P9	47.45°	05-43-53-91	Meet P6/P7/P8
P10	47.53°	04-44-52-92	Meet P5/P6/P9
P11	47.60°	03-45-51-93	Meet P4/P5/P10
P12	47.67°	02-46-50-94	Meet P3/P4/P11
P13	47.71°	01-47-49-95	Meet P2/P3/P12
P14	47.72°	96-48	Meet P1/P2/P13
G7	90.00°	20-28-68-76	Meet P8/P9/G6
G8	90.00°	24-72	Meet P7/P8/G7

CROWN

C1	19.27°	96-48	Establish girdle width
C2	19.28°	01-47-49-95	Maintain girdle width
C3	19.27°	02-46-50-94	Maintain girdle width
C4	19.28°	03-45-51-93	Maintain girdle width
C5	19.29°	04-44-52-92	Maintain girdle width
C6	19.28°	05-43-53-91	Maintain girdle width
C7	14.77°	20-28-68-76	Maintain girdle width
C8	11.93°	24-72	Meet C5/C6/C7
C9	15.60°	24-72	Maintain girdle width
C10	4.01°	24-72	Meet C5/C6/C7
C11	3.00°	24-72	Meet C4/C5/C10
C12	2.00°	24-72	Meet C3/C4/C11
C13	1.00°	24-72	Meet C2/C3/C12
T	0.00°	Table	Meet C1/C2/C13